SAW:iar 05/01/02 3382-61343 112525

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

E IDS Wholes

MAY 0 6 2002

Sir:

In re application of: Chen et al.

Application No. 10/020,708

Filed: December 14, 2001

For: ADAPTIVE WINDOW-SIZE SELECTION IN

TRANSFORM CODING

Examiner: Not yet assigned

Date: May 1, 2002

Art Unit: 2171

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service on May 1, 2002 as First Class Mail in an envelope addressed to: COMMISSIONER FOR PATENTS, WASHINGTON, D.C. 20231.

Kyle B. Rinchart
Attorney for Applicant

PURSUANT TO 37 C.F.R. § 1.97(b)(3) VED

COMMISSIONER FOR PATENTS WASHINGTON, DC 20231

SEP 1 % 2002

Technology Center 2600

Listed on the accompanying form PTO-1449 and enclosed herewith are several English-language and/or non-English-language documents. The non-English language documents (portions of Zwicker et al., Das Ohr als Nachrichtenempfanger and Zwicker, Psychoakustik) relate to human auditory models. Applicants respectfully request that these documents be listed as references cited on the issued patent.

Applicants filed this Information Disclosure Statement ("IDS") before the mailing date of a first Office action on the merits. As a result, no fee should be required to file this IDS. However, if the Patent Office determines that a fee is required for Applicants to file this Information Disclosure Statement, please charge any such fees, or credit overpayment, to Deposit Account No. 02-4550. A duplicate copy of this Information Disclosure Statement is enclosed.

Respectfully submitted,

KLARQUIST SPARKMAN, LLP

By

Kyle B Rinehart

Registration No. 47,027

One World Trade Center, Suite 1600

121 S.W. Salmon Street Portland, Oregon 97204

Telephone: (503) 226-7391 Facsimile: (503) 228-9446

cc:

Client (180528.1)

Docketing

INFORMATION DISCLOSURE **STATEMENT**

BY APPLICANT

Docket: 3382-61343

App: 10/020,708

Applicant: Chen et al.

Filed: December 14, 2001

Art Unit: 2171

& TRADEMARKS	·/	U.S. PA	TENT DOCUMENTS	S		
Init.*	Number	Date	Name	Class	Sub	Filed
	5,686,964 5,845,243		Tabatabai et al.			ico 1
			Smart et al.	RECEN	/ED	1000
	5,995,151	11.30.99	Naveen et al.	SEP 1 Z	2002	C
	6,115,689	09.05.00	Malvar	Technology Cen	ter 2600	
· [IER DOCUMENTS			_
,		Domain Codir	npression for Multimed ng," Morgan Kaufman F	·	<u>-</u>	-
			essing with Lapped Trail 18, and 353-57 (1992).	nsforms, Artech Ho	ouse, Norv	wood,
		ons on Acoustic	ansforms for Efficient Tests, Speech and Signal Pr			
	Its Applic	ation to Audio (Iodulated Lapped Trans Coding Standards," <i>IEE</i> , pp. 359-66 (July 1997)	EE Transactions on	•	

EXAMINER:

DATE

Herley et al., "Tilings of the Time-Frequency Plane: Construction of Arbitrary

Orthogonal Bases and Fast Tiling Algorithms," IEEE Transactions on Signal

de Queiroz et al., "Time-Varying Lapped Transforms and Wavelet Packets," IEEE

Processing, Vol. 41, No. 12, pp. 3341-59 (1993).

Transactions on Signal Processing, Vol. 41, pp. 3293-3305 (1993).

^{*}Examiner: Initial if considered, whether or not in conformance with MPEP 609; draw line through cite if not in conformance and not considered. Send copy.

INFORMATION DISCLOSURE STATEMENT		Docket: 3382-61343	App: 10/020,708	
		Applicant: Chen et al.		
MAY 0 6 2002	SY APPLICANT	Filed: December 14, 2001	Art Unit: 2171	
THE PADEMARK COPY	OTHER DO	OCUMENTS	Tec 1	
TAUE MILE	ISO/IEC 11172-3, Information Technology Coding of Moving Pictures and Associated Audio for Digital Storage Media at Up to About 1.5 Mbit/s Part 3: Audio, 154 pp. (1993). Dolby Laboratories, "AAC Technology," 4 pp. [Downloaded from the web site aacaudio.com on World Wide Web on November 21, 2001.]			
	Srinivasan et al., "High-Quality Audio Compression Using an Adaptive Wavelet Packet Decomposition and Psychoacoustic Modeling," <i>IEEE Transactions on Sign Processing</i> , Vol. 46, No. 4, pp. 1085-93 (April 1998).			
	Caetano et al., "Rate Control Str Electronics Letters, pp. 1815-17		Video Coders,"	
	Ribas Corbera et al., "Rate Cont Communications," <i>IEEE Transa</i> Vol. 9, No. 1, pp. 172-85 (Febru	actions on Circuits and Systems		
	Zwicker et al., <u>Das Ohr als Nachrichtenempfänger</u> , Title Page, Table of Contents, "I: Schallschwingungen," Index, Hirzel-Verlag, Stuttgart, pp. III, IX-XI, 1-26, and 231-32 (1967).			
	Terhardt, "Calculating Virtual Pitch," Hearing Research, 1:155-182 (1979).			
	Lufti, "Additivity of Simultaneous Masking," Journal of Acoustic Society of America, 73:262-267 (1983).			
	Jesteadt et al., "Forward Maskin Signal Delay," Journal of Acous		50-962 (1982).	
			RECEIVED	
EXAMINER:		DATE:	SEP 1 2 2002	
	if considered, whether or not in concite if not in conformance and not		Technology Center 2600	

Technology Center 2600

INFORMATION DISCLOSURE STATEMENT		Docket: 3382-61343	App: 10/020,708
		Applicant: Chen et al.	
*	BY APPLICANT	Filed: December 14, 2001	Art Unit: 2171
MAY U 6 ZOUZ	OTHER D	OCUMENTS	
PRADEMIA	ITU, Recommendation ITU-R B Perceived Audio Quality, 89 pp.	SS 1387, Method for Objective (1998).	Measurements of Chnology
,	ITU, Recommendation ITU-R E	3S 1115, Low Bit-Rate Audio C	Coding, 9 pp. (1994).
	Beerends, "Audio Quality Deter Techniques," Applications of December 1, Ed. Mark Kahrs, Kar (1998).	igital Signal Processing to Audi	io and Acoustics,
	Zwicker, <u>Psychoakustik</u> , Title P Springer-Verlag, Berlin Heidelb (1982).		
	Solari, Digital Video and Audio Sound and Audio," McGraw-Hi		
	A.M. Kondoz, <u>Digital Speech:</u> Chapter 3.3: Linear Predictive Parameter Quantisation Using L (1994).	Modeling of Speech Signals" a	nd "Chapter 4: LPC
Kadatch, U.S. Patent Application Serial No. 09/771,371, with Heuristic Approach," filed January 26, 2001.			ed, "Quantization Loop
	Chen et al., U.S. Patent Application Serial No. 10/017,694, entitled, "Quality and Rate Control Strategy for Digital Audio," filed December 14, 2001.		
1 1	Chen et al U.S. Patent Applica	tion Serial No. 10/017,702, ent	itled, "Quantization
	Matrices for Digital Audio," file		

Technology Center 2600

		Docket: 3382-61343	App: 10/020,708		
BY APPLICANT BY 6 2002		Applicant: Chen et al.			
		Filed: December 14, 2001 Art Unit: 2171			
MA a a mar and	OTHER DO	OCUMENTS	<u> </u>		
PRADEMARI		· 0 · 1 N · 10/017 0 (1 4)	41 - 1 - 6 - C - C - C - C - C - C - C - C - C		
	Chen et al., U.S. Patent Applicat Measurement of Perceptual Aud		, 2001.		
	Chen et al., U.S. Patent Applicate Improvement Techniques in an A				
	Wragg et al., "An Optimised Soft Decoder," 9 pp. [Downloaded from the content of				
	Fraunhofer-Gesellschaft, "MPEC Wide Web on October 24, 2001.		nloaded from the World		
	Fraunhofer-Gesellschaft, "MPEG-2 AAC," 3 pp. [Downloaded from the World Wide Web on October 24, 2001.]				
	OPTICOM GmbH, "Objective Perceptual Measurement," 14 pp. [Downloaded from the World Wide Web on October 24, 2001.]				
	De Luca, "AN1090 Application Note: STA013 MPEG 2.5 Layer III Source Decoder," STMicroelectronics, 17 pp. (1999).				
	Phamdo, "Speech Compression," 13 pp. [Downloaded from the World Wide Web on November 25, 2001.]				
	Malvar, "Biorthogonal and None with Reduced Blocking and Ring Signal Processing, Special Issue Applications, vol. 46, 29 pp. (19)	ging Artifacts," appeared in IEI on Multirate Systems, Filter B	EE Transactions on		
EXAMINER:		DATE:			